FLS M9.06 **PH/ORP MONITOR**



The new FLS M9.06 is a powerful pH/ORP monitor designed to satisfy a broad range of applications. A 4" wide full graphic display shows measured values clearly together with many other useful information. Moreover, due to the multicolor bright backlight, measurement status can be determined easily also from very long distance. A tutorial software guarantees a mistake-proof and fast set up of every parameter. A calibration based on automatic buffer recognition plus a in line adjustment allow to achieve a precise and a reliable measurement in every conditions.

APPLICATIONS

- Water treatment and regeneration
- Industrial waste water treatment and recovery
- Scrubber control
- Neutralization systems
- Heavy metals recovery
- Metal surface coating
- · Processing and manufacturing industry
- Chemical production
- Swimming pools and SPA

MAIN FEATURES

- Wide full graphic displayMulticolor backlight visualization
- · Help on board
- Automatic recognition of pH buffers
- In line adjustment
- Analog output for temperature remoting
- Mechanical relay for external device control
- Solid State Relays for programmable alarms

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TECHNICAL DATA

General

- · Associated sensors: FLS pH/ORP electrodes and
- FLS temperature sensors
- Materials:
- Case: ABS
- Display window: PCPanel & Wall gasket: silicone rubber
- Keypad: 5-button silicone rubber
- Display:
- LC full graphic display
 Backlight version: 3-colours
- Backlight activation: User adjustable with 5 levels of timing
- Update rate: 1 second
- Enclosure: IP65 front
- pH input range: -2÷16pH
- pH measurement resolution: ± 0.01 pH
- ORP input range: -2000÷ +2000mV
- ORP measurement resolution: ± 1 mV Temperature input range: -50÷150°C (-58÷302°F)
- (with Pt100-Pt1000)
- Temperature measurement resolution: 0,1°C/°F (Pt1000); 0,5°C/°F (Pt100)

Electrical

- Supply Voltage: 12 to 24 VDC ± 10% regulated
- 2 x Current output:
- 4-20 mA, isolated, fully adjustable and reversible
- Max loop impedance: 800 Ω @ 24 VDC 250 Ω @ 12 VDC

- 2 x Solid State Relay output:
- User selectable as ÓN-OFF, Proportional frequency
- output, Proportional Pulse, Timed Pulse, Off - Optically isolated, 50 mA MAX sink, 24 VDC MAX
- pull-up voltage - Max pulse/min: 300
- Hysteresis: User selectable
- 2 x Relay output:
- User selectable as ON-OFF, Proportional frequency
- output, Proportional Pulse, Timed Pulse, Off
- Mechanical SPDT contact
- Expected mechanical life (min. operations): 107
- Expected electrical life (min. operations): 10⁵ N.O./ N.C.switching capacity 5A/240VAC
- Max pulse/min: 60
- Hysteresis: User selectable

Environmental

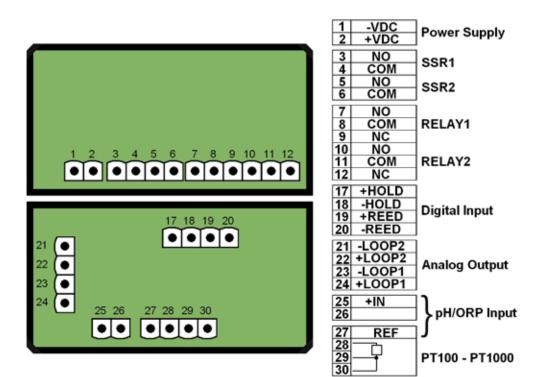
- Operating temperature: -20 to +70°C (-4 to 158°F)
- Storage temperature: -30 to +80°C (-22 to 176°F)
- Relative humidity: 0 to 95% not condensing

Standards & Approvals

- Manufactured under ISO 9001
- Manufactured under ISO 14001
- CE RoHS Compliant
- GOST R

WIRING CONNECTIONS

Rear Terminal View



ORDERING DATA

M9.06 pH/ORP monitors								
Part No.	Description /Name	Power supply	Wire power Technology	Sensor Input	Output	Weight (gr.)		
M9.06.P1	Panel mount pH/ORP monitor	12 - 24 VDC	3/4 wire	pH/ORP	2*(4-20mA), 2*(S.S.R.), 2*(mech. relay)	550		
M9.06.W1	Wall mount pH/ORP monitor	12 - 24 VDC	3/4 wire	pH/ORP	2*(4-20mA), 2*(S.S.R.), 2*(mech. relay)	650		
M9.06.W2	Wall mount pH/ORP monitor	110 - 230 VAC	3/4 wire	pH/ORP	2*(4-20mA), 2*(S.S.R.), 2*(mech. relay)	750		